

**TRACK Electrical Blueprint**

STANDARDS				COURSES		TEST BLUEPRINT	60 Questions
<b>OA</b>	<b>GENERAL - National Electrical Code Articles 100 - 110</b>			Electrical Construction I	Electrical Construction II	10%	6
OA1	Exhibits previously learned material by recalling facts, terms, and basic concepts related to the National Electrical Code						
OA2	Locates information using electrical installations regulation						
OA3	Demonstrates an understanding of electrical installations regulation						
<b>OB</b>	<b>WIRING AND PROTECTION - National Electrical Code Articles 200 - 285</b>			Electrical Construction I	Electrical Construction II	10%	6
OB1	Exhibits use and identification of grounded conductors						
OB2	Interpret code regulations of branch circuits						
OB3	Interpret code regulations of feeders						
OB4	Apply branch-circuit, feeder, and service calculations						
OB5	Interpret code regulations of services						
OB6	Calculate overcurrent protection						
OB7	Interpret code regulations of grounding and bonding						
<b>OC</b>	<b>WIRING METHODS AND MATERIALS - National Electrical Code Articles 300 - 399</b>	Circuits I		Electrical Construction I	Electrical Construction II	10%	6
OC1	Exhibits previously learned knowledge of general wiring methods and materials						
OC2	Locates information using conductors for general wiring						
OC3	Demonstrates an understanding of conductors for general wiring						
OC4	Apply knowledge of outlet, device, pull, and junction boxes; conduit bodies; fittings; and handhole enclosures						
OC5	Apply knowledge of cables according to the National Electrical Code (320-340)						
OC6	Apply knowledge of raceways according to the National Electrical Code (342-399)						
<b>OD</b>	<b>EQUIPMENT FOR GENERAL USE - National Electrical Code Articles 400 - 490</b>			Electrical Construction I	Electrical Construction II	10%	6
OD1	Interpret code regulations of equipment for general use (i.e., cords, switches, fixtures)						
OD2	Apply knowledge of luminaires, lampholders, and lamps						
OD3	Apply knowledge of appliances and equipment						
<b>OE</b>	<b>MATH AND SCIENCE OF ELECTRICITY</b>	Circuits I	Circuits II	Electrical Construction I	Electrical Construction II	30%	18
OE1	Demonstrate an understanding of Ohm's Law						
OE2	Demonstrate an understanding of DC Circuits						
OE3	Demonstrate an understanding of AC Circuits						
OE4	Demonstrate an understanding of transformers						
<b>OF</b>	<b>WORKPLACE SAFETY AND KNOWLEDGE</b>	Circuits I	Circuits II	Electrical Construction I	Electrical Construction II	30%	18
OF1	Identify equipment and materials of the trade						
OF2	Identify safe and proper use of tools of the trade						
OF3	Identify the characteristics of a safe work site						
OF4	Identify OSHA's 1926.10 Construction Standards and who enforces OSHA Rules and Regulation in Kentucky						

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OF5	Identify and use personal protective equipment						
OF6	Demonstrate ladder safety						
OF7	Demonstrate electrical safety (i.e., GFCI, cord use, grounding)						
OF8	Identify different types of chemical, biological, and physical hazards						
OF9	Interpret hazardous chemical communication (i.e., MSDS, HAZWOPER)						
OF10	Demonstrate knowledge and understanding of blood borne pathogens						
OF11	Demonstrate knowledge and understanding of blueprints (i.e., symbols, specifications, layout)						
OF12	Demonstrate knowledge and understanding of schematics and line diagrams						

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